

Gatwick Airport Noise Management Board

Workplan Implementation Report

NDG-7
17th November 2021

Introduction

This report summarises the status of NMB activities captured within the NMB currently adopted Workplan. The 12 priority activities to improve the aircraft noise environment in and around Gatwick, and included within this report, are:

	Workplan Activity	Status	Status Key	
Procedural changes	1. Reduced night flight noise		Complete or achieved	✓
	2. Landing gear deployment		In Progress	➡
	3. New departure noise limits & fines	➡	Ongoing	↻
	4. Improve departure continuous climb	➡	Paused	
	5. Review of noise abatement procedure for the Instrument Landing System (ILS) minimum joining point during the night	➡	Stopped/Not started	○
Procedural influences	6. Implement Airline Noise Table	↻		
	7. Deliver & incentivise Low Noise Arrivals Metric	➡		
	8. Agree & routinely use noise metrics	↻		
Strategic change influencing	9. Engagement with FASI-S	↻		
	10. Examine Fair & Equitable Dispersal	➡		
Noise-related information for decision making	11. Planning & Noise	➡		
	12. Growth & Noise			

The following slides provide a summary of progress, key milestones, interdependencies and current timelines for each workplan activity. Where activities have been paused due to the COVID-19 pandemic and resulting low traffic, **revised target milestone dates** have been presented. Where progress doesn't align with target milestone dates (as presented in the NMB Workplan), **new target milestone dates** have been presented.

ACTIVITY 1: REDUCED NIGHT FLIGHT NOISE

Status:

[illegible]

- NMB workplan target dates assumed preparation for the RNN trial through 2021, and trial commencement in winter 2021/22. The trial has been paused due to insufficient night-time traffic as a result of the pandemic. This will be reviewed periodically. The next review is expected to take place in Q2 2022.
- The revised target dates proposed above are subject to trial preparations recommencing in July 2022.
- There are a number of interdependent activities which can impact the proposed milestone dates, including (but not limited to):
 - CAA trial approval and associated timescales for this process.
 - ATC post-COVID recovery time (retraining & relicensing), and availability of operational resources to support the trial.

Procedural Change

ACTIVITY 2: LANDING GEAR DEPLOYMENT

Overview: The aim of this study is to determine whether noise reductions can be achieved at Gatwick Airport through optimisation of landing gear deployment by arriving aircraft at the airport.

Status: II

Project milestones:

Project milestones:		Key:  NMB Workplan target date														 Revised target date (due to COVID-19 / low traffic)														 Revised target date (due to other reasons)													
Year	2021						2022												2023																								
Month	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D													
Project milestones																																											
Desktop review of other airports’ trials																																											
Field study completion and development of a report.																																											
Engagement with airlines to determine whether optimisation is feasible																																											
Development of a landing gear deployment optimisation procedure, and engagement with stakeholders																																											
Report and recommendations																																											

Progress update:

- A desktop review of other airports' trials was undertaken in Q2 2021, to inform the field study. This includes a review of London Luton's Landing Gear Deployment Trial which took place between May and July 2017.
- A pilot survey was undertaken in September 2021; due to low traffic levels this only assessed a small number of aircraft and therefore a further 'main' survey, when traffic levels increase, is required. The results of the pilot survey will inform the main survey. Initial engagement with airlines, to discuss the findings of the pilot survey, was undertaken in October 2021.
- The study is currently paused due to insufficient traffic levels. This will be reviewed periodically. The main field study is expected to commence in Q1 2022, subject to sufficient traffic levels.
- Given the complexity in operationalising changes to standard operating procedures across different airlines and aircraft types, whilst the project will aim for implementation of recommendations by the end of Q2 2023, this timeline is subject to change.

ACTIVITY 3: NEW DEPARTURE NOISE LIMITS AND FINES

Status: ➡

Key: NMB Workplan target date Revised target date (due to COVID-19 / low traffic) Revised target date (due to other reasons)

Progress update:

- A new regime was proposed, and a report developed, in August 2021.
- Changes to the departure noise limits must be discussed with key stakeholders, views can currently be provided through the Northern Runway Project Consultation process.
- Further engagement with airlines is planned for Q1 2022.
- Engagement with the NMB is planned for Q1 2022.

Procedural Change

ACTIVITY 4: IMPROVE DEPARTURE CONTINUOUS CLIMB

Overview: The aim of this study is to compare the noise environment (i.e. noise contours) of a range of CCO and non-CCO departure climb profiles for a range of aircraft types, to understand the noise impacts of each, and to feed the findings of the study into FASI-S options development work for future design consideration.

Status: ➡

Project milestones:

Project milestones:		Key:  NMB Workplan target date																 Revised target date (due to COVID-19 / low traffic)								 Revised target date (due to other reasons)																	
Year	2021								2022												2023																						
Month	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D												
Project milestones																																											
Data analysis and report development																																											
CCO industry workshop to determine how the outputs of the study might inform FASI-S planning																																											
Revised report, taking into account feedback received, approval by GAL																																											
Report findings to the NMB																																											
Report findings to the FASI-S Options development team																																											

Progress update:

- Analysis was undertaken in Q2 2021.
- A CCO industry workshop was held on 21 September to discuss the findings of the study and to determine how the outputs might inform FASI-S planning.
- Further analysis for a larger aircraft type is currently being undertaken. Project is expected to complete in Q4 2021, and findings will be reported to the NMB and the FASI-S options development team in Q1 2022.

Procedural Change

ACTIVITY 5: REVIEW OF NOISE ABATEMENT PROCEDURE FOR THE INSTRUMENT LANDING SYSTEM (ILS) MINIMUM JOINING POINT DURING THE NIGHT

Overview: The aim of this review is to perform a study of the noise abatement procedure for the ILS minimum joining point during the night, and to identify theoretical but realistic alternatives to the current minimum night joining point. The study will include an assessment of the associated noise impact of each option, including identification of suitable metrics to assess impacts. Study findings will be used to inform FASI-S planning.

Status: ➡

Project milestones:

Project milestones:		Key:  NMB Workplan target date																 Revised target date (due to COVID-19 / low traffic)								 Revised target date (due to other reasons)										
Year	2021								2022												2023															
Month	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D					
Project milestones																																				
Establishment of the tSG and approval of tSG ToR																																				
Commission an independent delivery partner																																				
Data analysis and report development by independent delivery partner. Briefing of study findings to the NMB																																				
Report to FASI-S Options development team																																				

Progress update:

- The technical Steering Group (tSG) ToRs were adopted in July 2021.
- An independent delivery partner was appointed in September 2021.
- The study commenced in October 2021 and is expected to complete in January 2022.

Procedural Influence

ACTIVITY 6: IMPLEMENT AIRLINE NOISE TABLE

Overview: The aim of this activity is to construct metrics and trial and implement the Airline Noise Performance Table (already achieved). Next steps involve a review of how the table is working, including a review of existing metrics and integration of new metrics if required.

Status: 

Project milestones:		Key:  NMB Workplan target date  Revised target date (due to COVID-19 / low traffic)  Revised target date (due to other reasons)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Year	2021						2022												2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Month	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Project milestones																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Review and update (if applicable) the Airline Noise Performance Table																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

Progress update:

- The Airline Noise Performance Table has been reported in GAL’s Noise Reports since Q1 2021. It is updated quarterly and reported through the Airspace Office’s Quarterly/Annual Reports.
- A review of how the table is working, originally scheduled to take place in Q4 2021,is postponed to Q2 2022, when it is currently expected that a larger, more representative dataset could be available.

Procedural Influence

ACTIVITY 7: DELIVER & INCENTIVISE LOW NOISE ARRIVALS METRIC

Overview: The aim of this activity is to conduct desktop validation of the Low Noise Arrivals metric at Gatwick using measured noise data and arrival flight trajectories (already achieved). Next steps include a briefing and discussion on the new Low Noise Arrivals Metric to the NCF or NEX, and to adopt the metric following roll out by Sustainable Aviation (SA).

Status: ➡

Project milestones:

Key: ◆ NMB Workplan target date ◆ Revised target date (due to COVID-19 / low traffic) ◆ Revised target date (due to other reasons)

Year	2021							2022												2023												
Month	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
Project milestones																																
Metric briefing provided to the NMB	◆																															
Development of operational roll out plan by SA sub-group				◆								◆																				
Low Noise Arrival Metric in operational use							◆												◆													

Progress update:

- Metric validation concluded in Q4 2020.
- A briefing on the new metric was provided to the NEX in Q2 2021.
- CAP publication delayed to Q4 2021 as a result of further (minor) revisions to the document, and limited CAA resources.
- SA established a sub-group in Q1 2021 to consider the necessary steps for deployment of the metric for operational use. An operational roll out plan will be developed and implemented after CAA CAP publication. As such, development of the roll out plan has been delayed to Q2 2022, and operational use of the metric delayed to Q4 2022.

Procedural Influence

ACTIVITY 8: AGREE & ROUTINELY USE NOISE METRICS

Overview: The aim of this activity is to agree and trial the use of >N60 and >N65 metrics (already achieved), and to consider noise metrics and communications protocol to be drafted by CNG representatives as the basis for future discussion.

Status: 

Project milestones:

Project milestones:		Key:  NMB Workplan target date  Revised target date (due to COVID-19 / low traffic)  Revised target date (due to other reasons)																														
Year		2021							2022												2023											
Month		J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Project milestones																																
Use of N/above (N60 and N65) metrics alongside Leq (averaged) noise contours (throughout NMB second term)																																

Progress update:

- N/above (N60 and N65) metrics are routinely used for all noise reduction trials and to measure noise (already in use). These are monitored by Gatwick's Noise and Track Monitoring Advisory Group (NaTMAG).
- Proposed protocol prepared by CNG and discussed at NEX/3 in June 2021. GAL provided a detailed response the conclusion in which; '*GAL can see an opportunity to include further detail around Gatwick's commitment to noise monitoring and communication being included in the next iteration on the END Noise Action Plan; actions 32 to 39 of Gatwick's current END Noise Action Plan set out some of the airport's noise monitoring activity*'.

Strategic Change Influence

ACTIVITY 9: ENGAGEMENT WITH FASI-S

Overview: The aim of this activity is to undertake FASI-South workshops for NMB stakeholders to develop participants knowledge on FASI-S and implications/possible advantages for noise reduction around Gatwick.

Status: 

Project milestones:		Key:  NMB Workplan target date  Revised target date (due to COVID-19 / low traffic)  Revised target date (due to other reasons)																																					
Year	2021								2022								2023																						
Month	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D								
Project milestones																																							
FASI-South airspace change process is properly informed on Gatwick noise issues (throughout NMB Second Term)																																							

- Progress update:**
- A virtual workshop was held on 24 June 2021 for NMB and NATMAG members.
 - Subsequent workshops have taken place for stakeholders, arranged by the FASI-S team:
 - 2 Sep 2021
 - 3 Sep 2021

The following FASI-S workshops are planned to date:

- 7 Dec 2021
- 9 Dec 2021

Strategic Change Influence

ACTIVITY 10: EXAMINE FAIR & EQUITABLE DISPERSAL

Overview: The aim of this study is to define and quantify Fair and Equitable Distribution (FED) of aircraft, in order that FED concepts may be used to inform Option Development for FASI-S as regards aircraft using Gatwick, whether arriving or departing. The study includes an independent assessment of how FED concepts could be achieved, as well as identification of suitable metrics to measure and report distribution of traffic and noise disturbance.

Status: ➡

Project milestones:

Project milestones:		Key:  NMB Workplan target date  Revised target date (due to COVID-19 / low traffic)  Revised target date (due to other reasons)																													
Year	2021							2022												2023											
Month	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Project milestones																															
Establishment of the tSG and approval of tSG ToR																															
Commission an independent delivery partner																															
Undertake NMB FED Workshop																															
Data analysis and report development by independent delivery partner. Briefing of study findings to the NMB																															
Report to FASI-S Options development team																															

Progress update:

- The technical Steering Group (tSG) ToRs were adopted in August 2021.
- An independent delivery partner was appointed in October 2021.
- The study commenced in October 2021 and is expected to complete in January 2022.

Noise Related Information for Decision Making

ACTIVITY 11: PLANNING & NOISE

Overview: The aim of this activity is to develop a proposal, following engagement with local planning authorities represented at NATMAG, and NMB stakeholders, to Councils and a separate one to Sustainable Aviation on need for greater consideration of aviation noise in residential land use planning decisions, to include identifying what additional information could be provided by airports to support planning authorities.

Status: ➡

Project milestones:

Key: ◆ NMB Workplan target date ◆ Revised target date (due to COVID-19 / low traffic) ◆ Revised target date (due to other reasons)

Year	2021							2022												2023											
Month	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Project milestones																															
Scoping of Action Plan						◆																									
Engagement with local planning authorities and Councils							◆	◆																							
Report & recommendations										◆																					

Progress update:

- Scoping of action plan undertaken in Q3 2021 for briefing to the NEX in Q4 2021.
- Survey of local planning authorities expected in Q1 2022. This is planned to commence after the Northern Runway Project Consultation, which closes on 1 December. Given the availability of key council stakeholders during the holiday period, this activity has been delayed to Q1 2022.

Noise Related Information for Decision Making

ACTIVITY 12: GROWTH & NOISE

Overview: Discussions on growth and noise, dependent on flight growth post-COVID.

Status: II

Project milestones:

Project milestones:		Key:  NMB Workplan target date  Revised target date (due to COVID-19 / low traffic)  Revised target date (due to other reasons)																														
Year		2021							2022												2023											
Month		J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Project milestones																																
Review airport growth and noise																																

Progress update:

- This topic was introduced during the NMB's first term. GAL undertook a noise policy review and reported the findings (NMB/14 IP30) in January 2019. The COVID-19 pandemic has impacted Gatwick traffic for the duration of the NMB's second term (to date). Traffic levels in Q4 2021 are still only 25% of 2019 levels, with night flight numbers at 10% of prior levels.
- Discussions are currently paused. Propose to revisit this activity in Q2 2022.